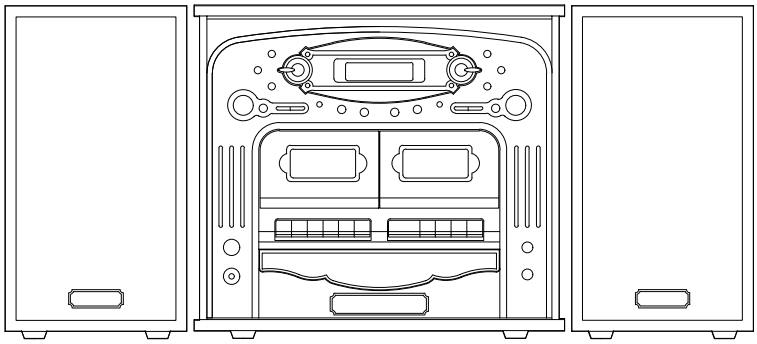
TEAC



SERVICE MANUAL

GF-600

Compact Hi-Fi Stereo System

NOTES

- PC boards shown are viewed from parts side.
- Parts marked with * require longer delivery time.
- The parts with no reference number or no parts number in the exploded views are not supplied.
- As regards the resistors and capacitors, refer to the circuit diagrams contained in this manual.
- ⚠ Parts marked with this sign are safety critical components. They must be replaced with identical components – refer to the appropriate parts list and ensure exact replacement.
- Parts of [] mark can be used only with the version designated.
- [US]:U.S.A.[C]:CANADA[SA]:SOUTH AMERICA

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1 SAFETY INFORAMTION…… 2
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3-1 AMPLIFIER SECTION……..…… 4
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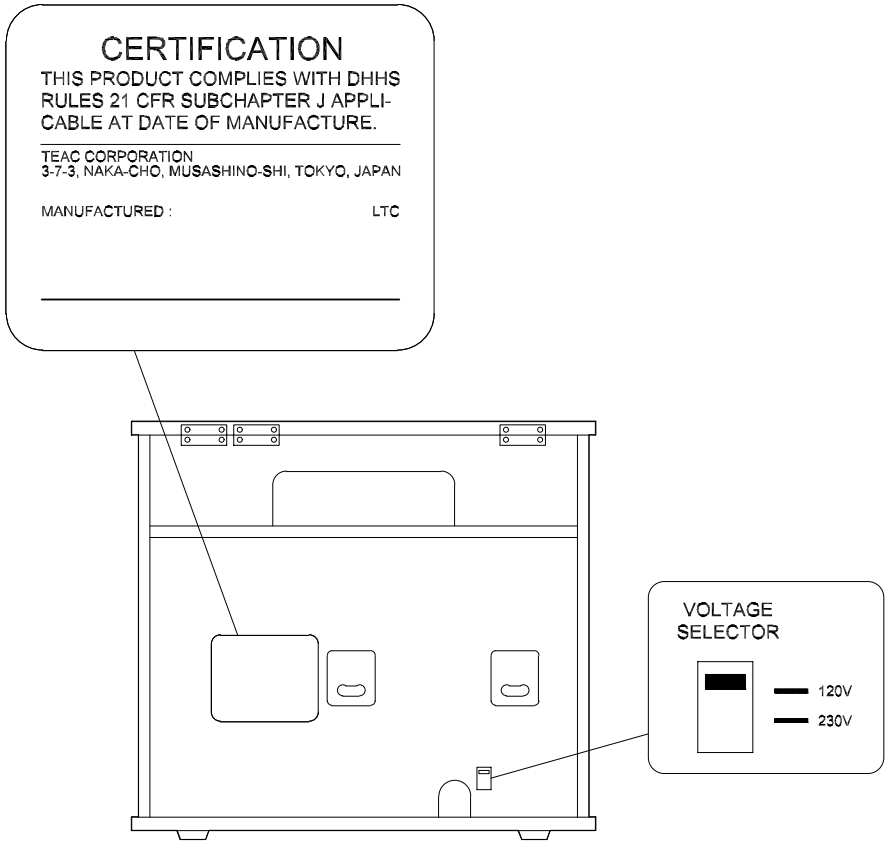
1 SAFETY INFORMATION

SAFETY INFORMATION

This product has been designed and manufactured according to FDA regulations “title 21, CFR, chapter 1, subchapter J based on the Radiation Control for Health and Safety Act of 1986” and is classified as class 1 laser product. There is no hazardous invisible laser radiation during operation because invisible laser radiation emitted inside of this product is completely confined in the protective housings. The label required in this regulation is shown below.

● **CAUTION**

USE OF CONTROLS OR ADJUSTMENT OR PERFORMANCE OF PROCEDURES OTHER THAN THOSE SPECIFIED HERE IN MAY RESULT IN HAZARDOUS RADIATION EXPOSURE.



Optical pickup:

Type	:	SLD104u
Manufacturer	:	SONY Corporation
Laser output	:	Less than 0.5mV on the objective lens
Wavelength		760 – 800 nm

2 SPECIFICATIONS

AMPLIFIER Section

Output Power……..……..……..15W+15W
Input Sensitivity…….……..……220mV
Frequency Response……..……50 to 20,000 Hz

TUNER Section (FM)

Frequency Range……..…...87.50 to 108.00 MHz
Sensitivity (S/N30dB)……..……..……20dBμV

TUNER Section (AM)

Frequency Range…….……530 to 1710 kHz
Sensitivity (S/N20dB)……..……..……..…60dBμV/m

CD PLAYER Section

Frequency Response……..…20 to 20,000Hz (±1dB)
Signal-to-Noise Ratio…….…….. 55dB
Wow and Flutter……..……...Unmeasurable

CASSETTE DECK Section

Track System……..……..4 track, 2 channel Stereo
Tape Speed…….……..4.8cm/sec
Wow and Flutter…….……0.35% (WRMS)
Frequency Response……..……..…100 to 8,000 Hz
Signal-to-Noise Ratio……..……...35dB

RECORD PLAYER Section

Motor……..……DC servo motor
Drive System……..……Belt Drive
Speed…..……..……..……33-1/3 rpm, 45 rpm, 78 rpm
Wow and Flutter…….……...less than 2.5% (WRMS)
S/N ratio…….……..…….....More than 50dB
Cartridge type……..…Ceramic Stereo Cartridge

SPEAKER SYSTEM Section

Type……..……..2-way bass reflex
Impedance…….……..…..6 ohms

GENERAL

Power Requirements…..…120V, 60Hz (U.S.A./Canada model)
120V/230V AC, 50-60Hz (General export model)
Power Consumption……...……..……..……..……50W
Dimension (W x H x D)
Main Unit…….……..……395 x 379 x 277 mm
(15-9/16” x 14-15/16” x 14-13/16”)
Speaker…….20 x 172 x 377 mm (7-7/8” x 6-3/4 x 14-13/16”)
Weight
Main Unit……..……...11.6 kg (25-1/2 lb)
Speaker……..……..……2.8 kg (6-3/16 lb) x 2

Standard Accessories

Remote Control Unit (RC-905) x 1
45 RPM adaptor x 1
Owner’s Manual x 1
Warranty Card x 1

- Design and specifications are subject to change without notice.
- Illustrations may differ slightly from production models

3 ADJUSTMENT AND CHECKS

- 0 dB is referenced to 1.0V.
- Load impedance:
  SPEAKERS: 6 ohm (40W or more)
  PHONES: 1k ohm (1/4W)
- Specified input level: -3dB (AUX)
- VOLUME position: VOL 20
- Unless specified otherwise,measurements are made in PHONES jack

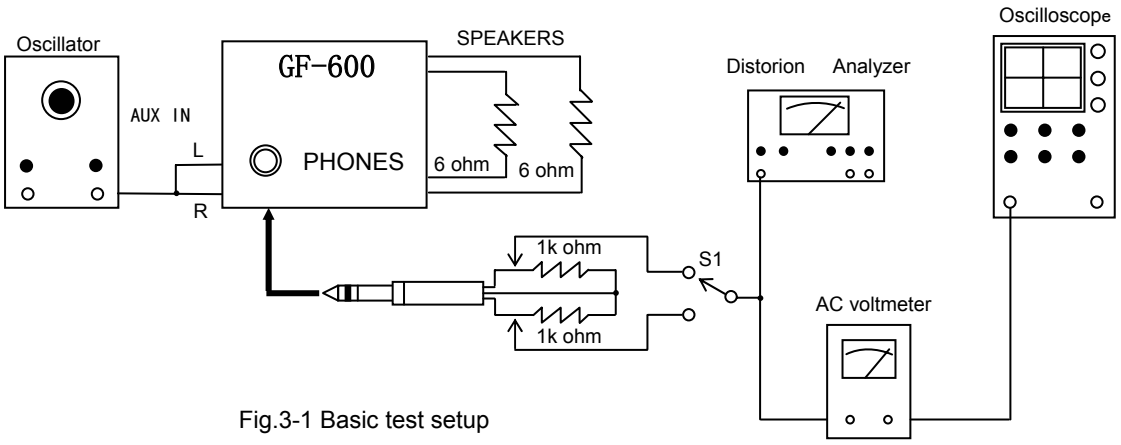


Fig.3-1 Basic test setup

3.1 AMPLIFIER SECTION

ITEM	INPUT SIGNAL (AUX IN)	SPECIFICATIONS	REMARKS
1.AUX input sensitivity	1KHz /-3dB	-4 +/-3dB	Reference output level
2.Harmonic distortion	1KHz /-3dB	1.0% or less	
3.Frequency response	40Hz,100Hz,20kHz	40Hz: 9 +/-3dB 100Hz: 7 +/-3dB 20kHz: 3 +/-3dB	Reference level:1kHz
4.S/N ratio	No signal	50dB or better	Ratio of reference output level to noise
5.Maximum output power	1KHz	THD:10% or less	VOLUME: MAX

3-2 TUNER SECTION

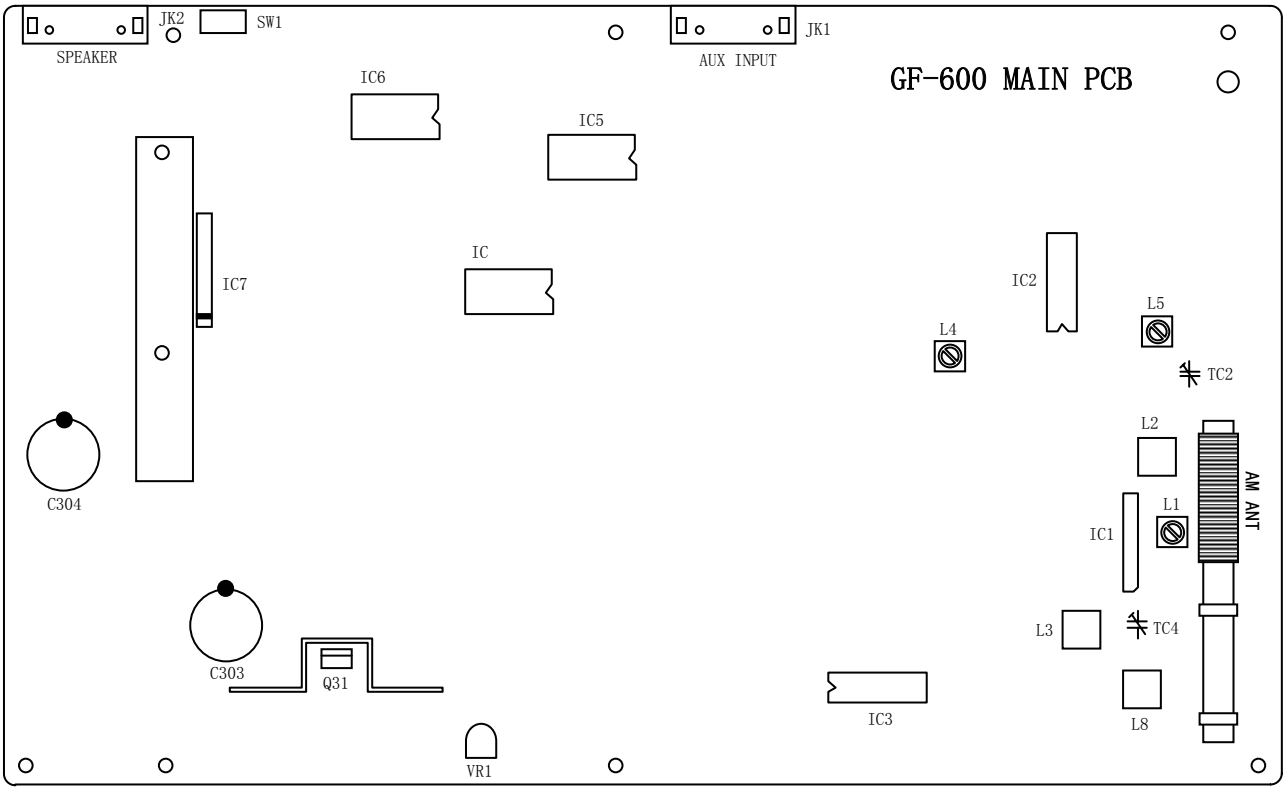


FIG 3-2 Adjustment locations

3-2-1 AM TUNER

ITEM	SIGNAL GENERATOR SETTING				GF-600	ADJUSTMENTS	MEASURING POINTS,RESULT
	Audio	Modulation	Frequency	Output			
1.Voltage adjustment					1710kHz	L5	VT 8.0V
					530kHz	Check	VT 0.9V
2.IFT adjustment	1kHz	30%	600kHz	76 dBuV	600kHz	L4	Maximum output level
3.Tracking adjustment	1kHz	30%	600kHz	76 dBuV	600kHz	Ant coil	Maximum output level
	1kHz	30%	1400kHz	76 dBuV	1400kHz	TC2 Repeat step 3	Maximum output level

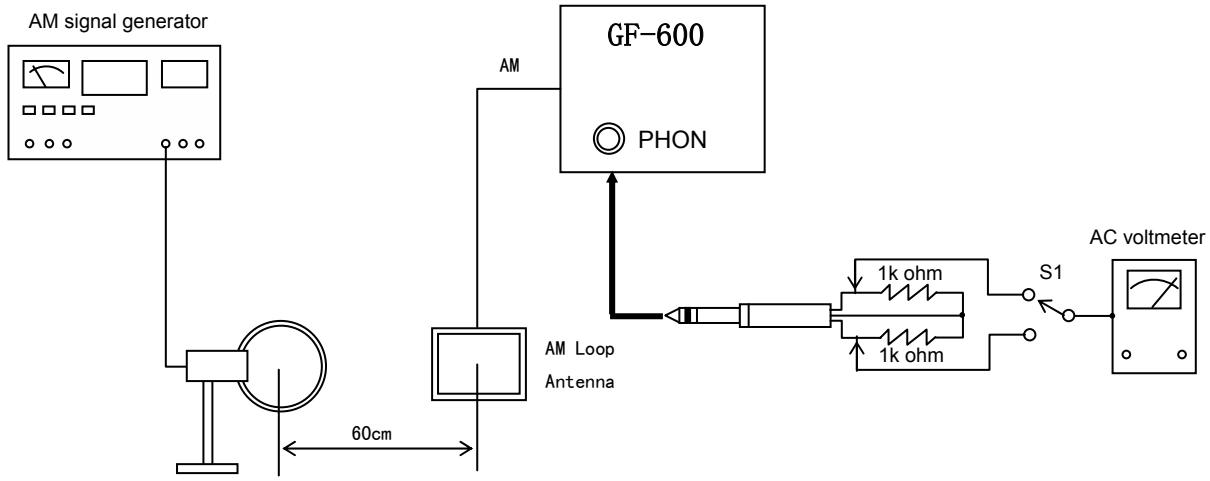


Fig.3-3

3-2-2 FM TUNER

ITEM	SIGNAL GENERATOR SETTING				GF-600	ADJUSTMENTS	MEASURING POINTS,RESULT
	Audio	Modulation	Frequency	Output			
1.Voltage adjustment					108.0MHz	L2	VT 8.0V
					87.5MHz	Check	VT 2.4V
2.IFT adjustment	1kHz	22.5kHz	90.1MHz	22.5 dBuV	90.1MHz	L1	Maximum output level
3.Tracking adjustment	1kHz	22.5kHz	90.1MHz	76 dBuV	90.1MHz	L3	Maximum output level
	1kHz	22.5kHz	106.0MHz	76 dBuV	106.0MHz	TC4 Repeat step 3	Maximum output level

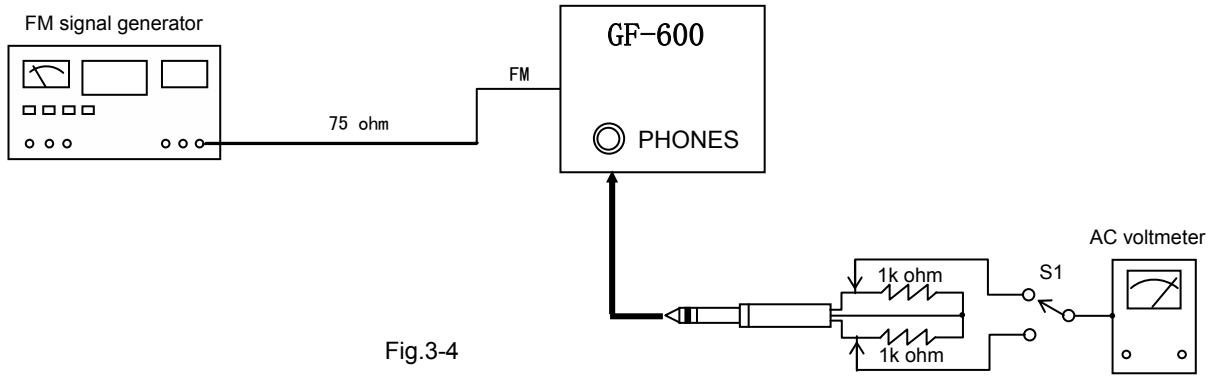


Fig.3-4

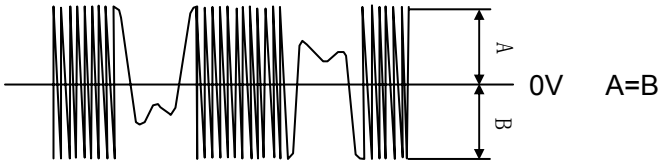
3-3 CD PLAYER SECTION

3-3-1 ADJUSTMENT

- Set all of the adjustment volumes to the center position.
- Use an oscilloscope that has a bandwidth greater than 40MHz.
- Use MCD-111 test disc.

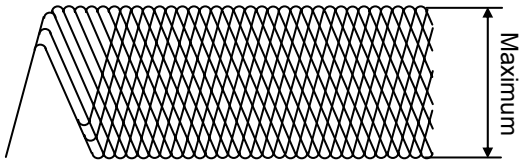
A. EF balance adjustment

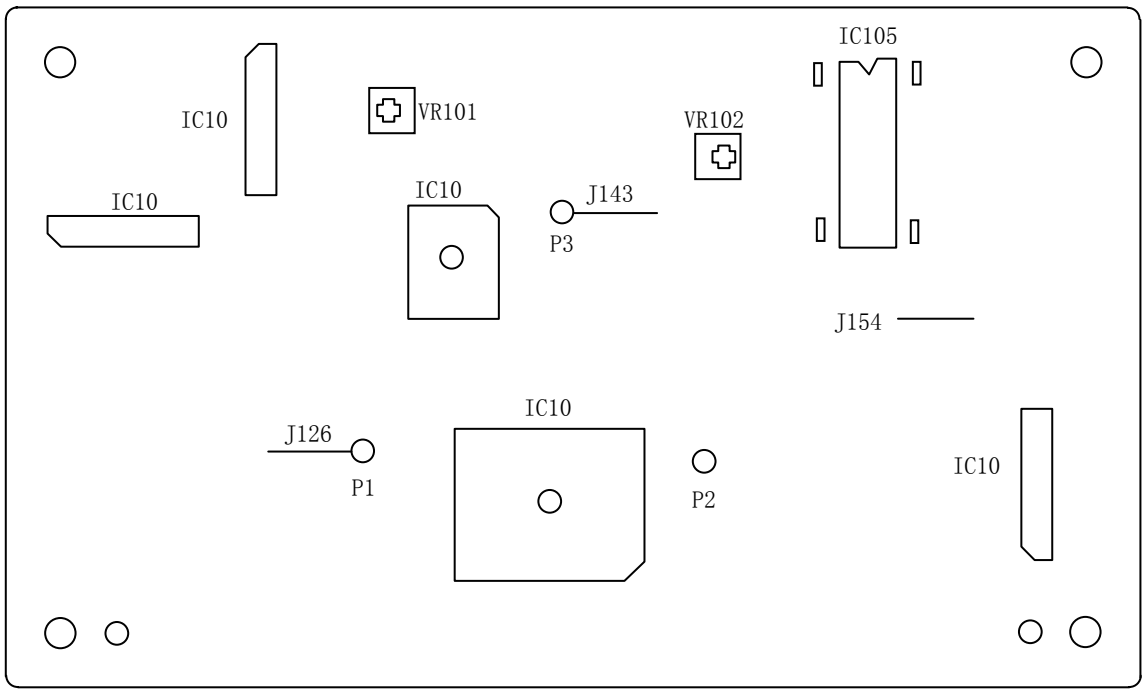
1. Connect the probe to P1 or J126(TE) and the probe ground to P2 or J154(VC).
2. In the search mode,and adjust VR101 so that the upper and lower.
   amplitudes of the waveform become equal above and below 0V.



B. RF level adjustment

1. Connect the probe to P3 or J143(RF) and the probe ground to P2 or J154(VC).
2. In the play mode,and adjust VR102 so that the waveform on the oscilloscope
   becomes maximum.





3-3-2 Audio performance

ITEM	DISC		SPECIFICATIONS	REMARKS
	TRACK No.	FREQUENOY/LEVEL		
1.Output level	2	1KHz/0dB	6 ±3dB	
2.Harmonic distortion	2	1KHz/0dB	0.5% or less	
3.Frequency response	4,6	100Hz,20KHz/0dB	+1, -3dB	Reference level: 1KHz
4.S/N ratio	7	-∞dB	50dB or better	

3-4 CASSETTE DECK SECTION

Before performing adjustments and checks clean and demagnetize the entire tape path.

3-4-1 Mechanical performance

ITEM	TEST TAPE	SPECIFICATIONS
1.Wow and flutter (playback method)	MTT-111N	0.35% or less (JIS WTD)
2.Tape speed deviation	MTT-111N	3000 ±120Hz (Adjustment points: VR1)
3.Tape speed drifting	MTT-111N	Within ±90Hz

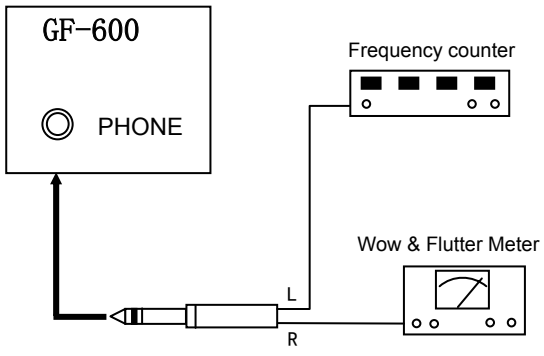


Fig.3-6

3-4-2 PLAYBACK PERFORMANCE

ITEM	TEST TAPE	PLAYBACK FREQUENCY	ADJUSTMENTS	MEASURING POINTS,RESULT	REMARKS
1.Head azimuth adjustment	MTT-25702	8KHz	Azimuth screw	Maximum output level at L/R-ch	Fig.3-7
	MTT-25702	250Hz	Check	Phase:within 45° (Fig.3-8)	
2.Playback output level	MTT-150C	Dolby B type tone	Check	-4 ±3dB	Reference output level
3.Playback frequency response	MTT-25702	8KHz	Check	±5dB	Reference level:250KHz
4.Playback S/N ratio	MTT-5513	Playback the leader tape portion	Check	40dB min	Ratio of reference level to noise

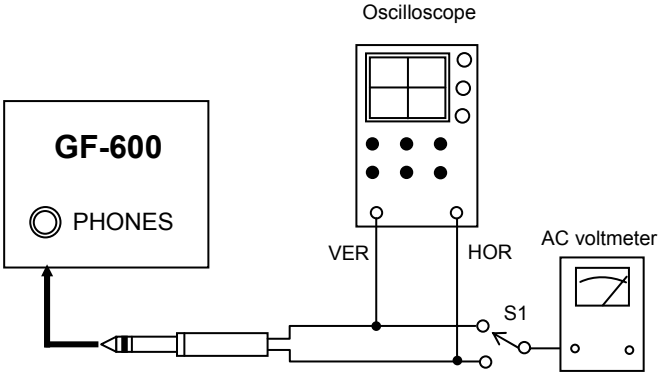


Fig.3-7 Test setup for azimuth check

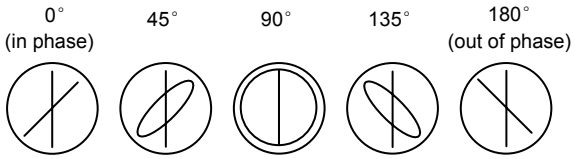


Fig.3-8 Confirming phase relationship

3-4-3 Recording performance

ITEM	TEST TAPE	INPUT SIGNAL (AUX in)	ADJUSTMENTS	MEASURING POINTS,RESULT	REMARKS
1.Bias osc frequency	MTT-5513		Check	85KHz	
2.Total harmonic distortion	MTT-5513 MTT-5563	400Hz/-6dB	Check	3.0% or less	
3.Overall frequency response	MTT-5513	8KHz/-28dB	Check	+3 to 4dB	Reference level: 250Hz
	MTT-5563		Check	±7dB	
4.Overall S/N Ratio	MTT-5513	NO signal	Check	35dB min	Ratio of reference level to noise

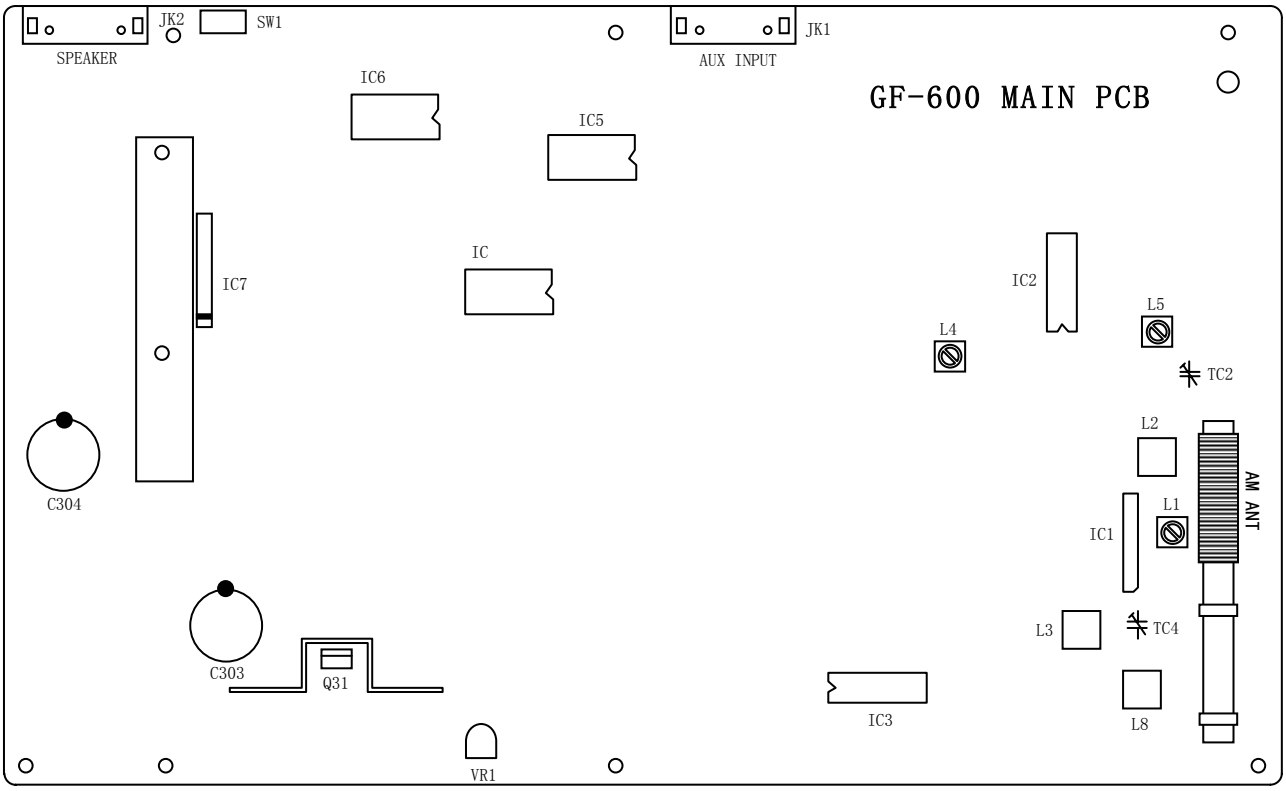


FIG 3-9 Adjustment locations

3-5 TURNTABLE SECTION

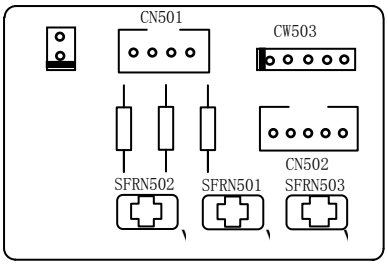


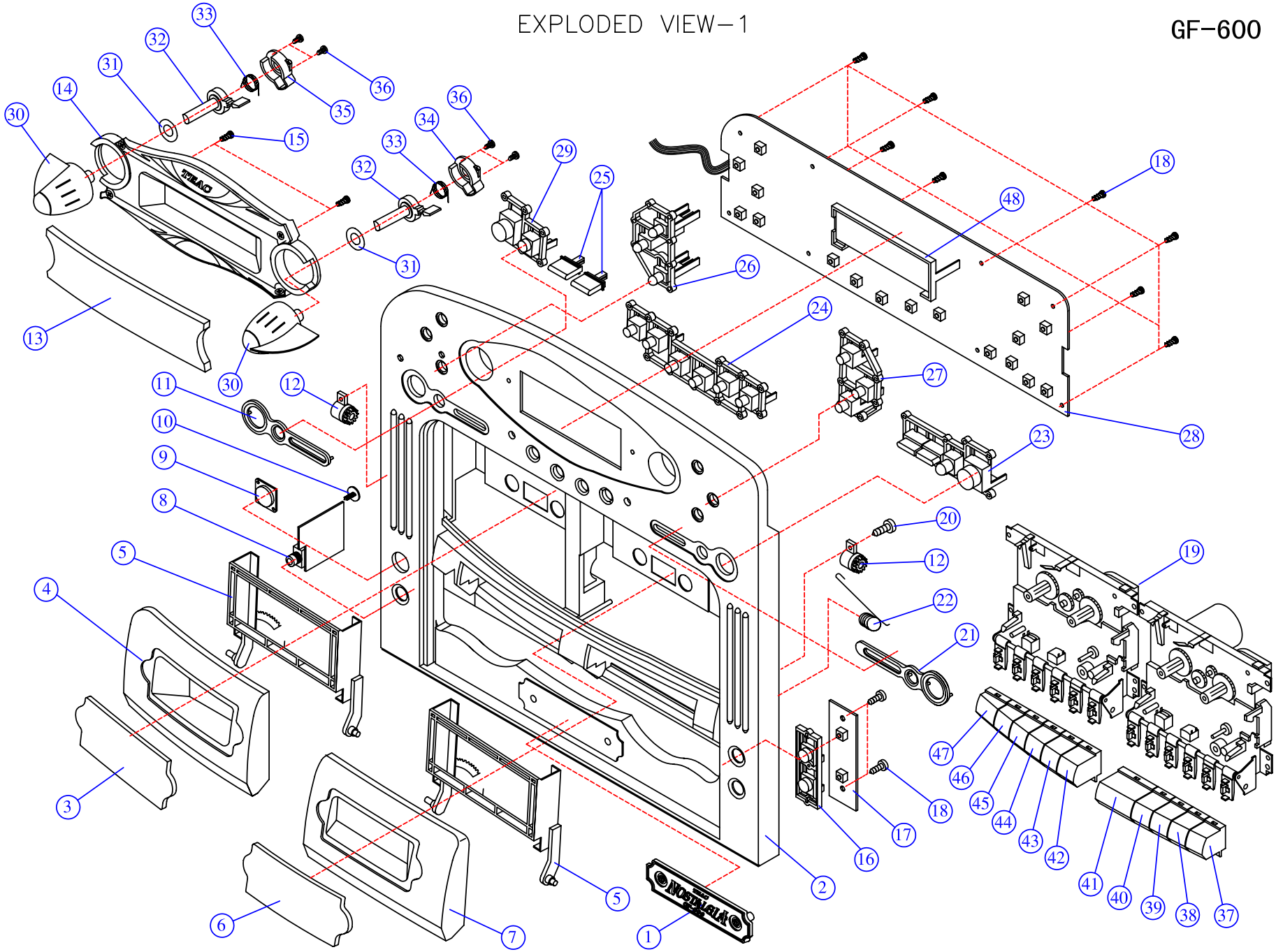
FIG 3-10

TURNTABLE

ITEM	HP-4005 Number.	Adjustment point	Speed	Adjustment	Wow & Flutter
33	NO.3	SFR502	3000Hz	±30Hz	< 0.35%
45	NO.4	SFR501	3000Hz	±30Hz	---
78	NO.4	SFR503	5200Hz	±30Hz	---

EXPLODED VIEW—1

GF-600

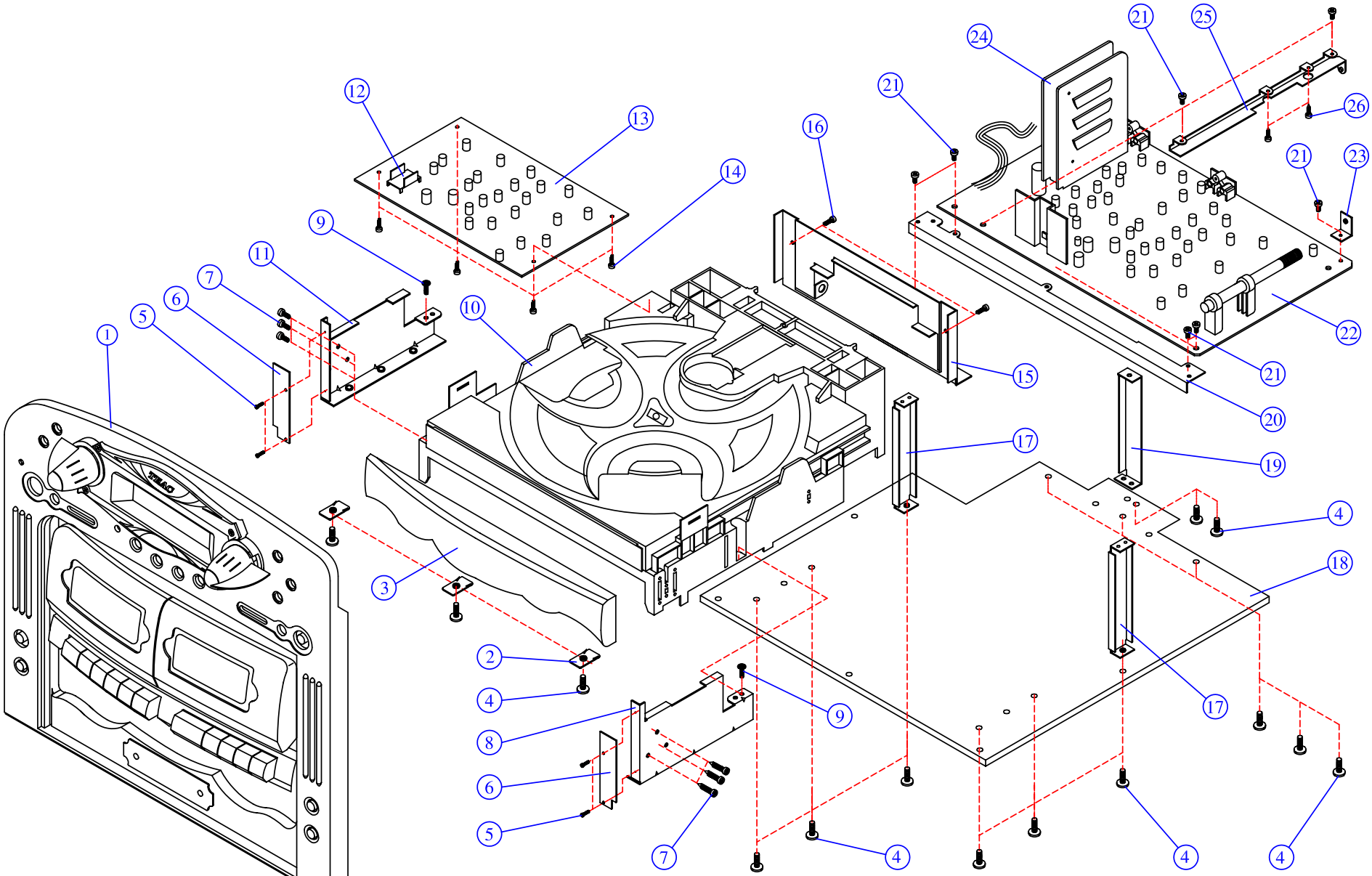


EXPLODED VIEW-1

REF. NO	PARTS NO.	DESCRIPTION	REMARKS
1 – 1	010-G6000000	NAME PLATE	
1 – 2	001-G6000000	FRONT PANEL	
1 – 3	007-G6000100	CASS WINDOW(A)	
1 – 4	005-G6000000	CASS DOOR(A)	
1 – 5	005-28000001	CASS HOLDER	
1 – 6	007-G6000200	CASS WINDOW(B)	
1 – 7	005-G6000100	CASS DOOR(B)	
1 – 8	100-G6002030	HEAD PHONE/SENSOR PCB ASS'Y	
1 – 9	007-G6000300	REMOTE COVER LENS	
1 – 10	021-43010033	SCREW Ø3x10MM,PWT BLK HD(Ø=11.5MM)	
1 – 11	010-G6000200	KEY RING(L)	
1 – 12	008-0GP18000	GEAR DUMPER ASS'Y	
1 – 13	007-G6000000	LCD DISPLAY WINDOW	
1 – 14	001-G6002040	LCD ORNAMENT PANEL	
1 – 15	021-13008032	SCREW Ø3x8MM PT ZMC HD	
1 – 16	004-G6000700	CD OPEN/CLOSE KNOB	
1 – 17	100-G6002040	CD OPEN/CLOSE PCB ASS'Y	
1 – 18	021-13010032	SCREW Ø3x10MM PT ZMC HD	
1 – 19	038-201831C0	CASSETTE MECHA	
1 – 20	021-43008052	SCREW Ø3x8MM PWB ZMC HD	
1 – 21	010-G6000100	KEY RING(R)	
1 – 22	031-28000110	CASS SPRING	
1 – 23	004-G6000200	CD CONTROL KNOB	
1 – 24	004-G6000600	FUNCTION KNOB	
1 – 25	004-G6000500	BBS/DOUBLE SPEED KNOB	
1 – 26	004-G6000100	DISPLAY KNOB	
1 – 27	004-G6000300	DISC KNOB	
1 – 28	100-G6002020	FRONT PCB ASS'Y	
1 – 29	004-G6000400	POWER KNOB	
1 – 30	004-G6000000	VOLUME/TUNER KNOB	
1 – 31	012-02120612	PVC WASHER Ø12x Ø6.1xT0.2MM	
1 – 32	009-28000000	SWITCH LEVER	
1 – 33	031-28000010	VOLUME SPRING	
1 – 34	010-SD900800	TUNER SPRING COVER	
1 – 35	010-SD900700	VOLUME SPRING COVER	
1 – 36	021-42606032	SCREW Ø2.6x6MM PWT ZMC HD	
1 – 37	004-29301801	CASS KNOB 5 R<C/LEVER R5>	
1 – 38	004-29301701	CASS KNOB 4 R<C/LEVER R4>	
1 – 39	004-29301601	CASS KNOB 3 R<C/LEVER R3>	
1 – 40	004-29301500	CASS KNOB 2 R<C/LEVER R2>	
1 – 41	004-29301401	CASS KNOB 1 R<C/LEVER R1>	
1 – 42	004-29301301	CASS KNOB 6 L<C/LEVER L6>	
1 – 43	004-29301201	CASS KNOB 5 L<C/LEVER L5>	
1 – 44	004-29301101	CASS KNOB 4 L<C/LEVER L4>	
1 – 45	004-29301001	CASS KNOB 3 L<C/LEVER L3>	
1 – 46	004-29300901	CASS KNOB 2 L<C/LEVER L2>	
1 – 47	004-29300801	CASS KNOB 1 L<C/LEVER L1>	
1 – 48	009-28000100	LCD HOLDER	

EXPLODED VIEW–2

GF–600

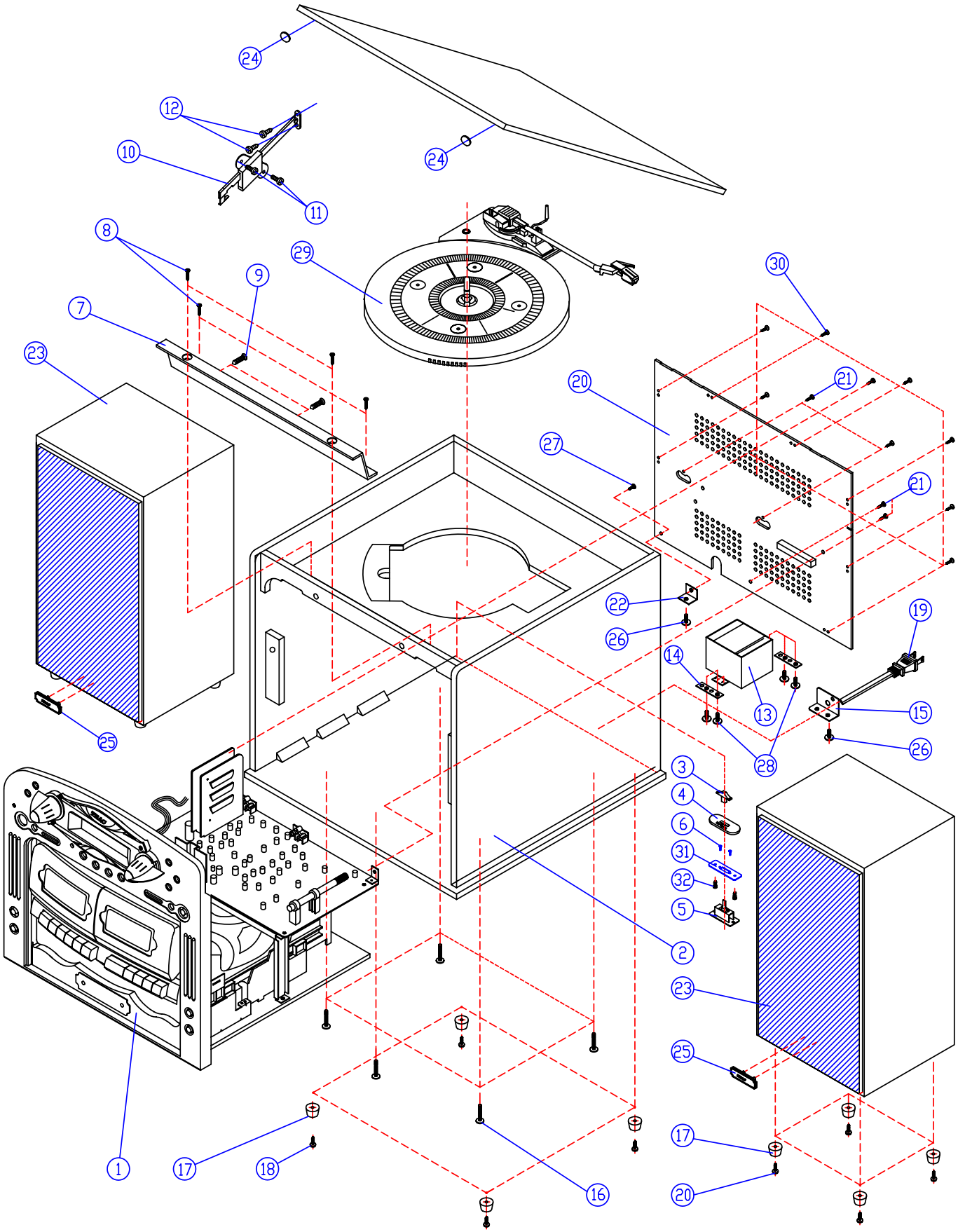


EXPLODED VIEW-2

REF. NO	PARTS NO.	DESCRIPTION	REMARKS
2 – 1		FRONT PANEL ASS'Y	
2 – 2	011-28000600	PANEL BKT	
2 – 3	006-G6000000	CD DOOR	
2 – 4	022-44022033	SCREW Ø4x22MM PWM BLK HD	
2 – 5	022-92006033	SCREW Ø2x6MM CM BLK HD	
2 – 6	015-G6001000	OBSTRUCT PVC	
2 – 7	024-23010032	SCREW Ø3x10MM BA ZMC HD	
2 – 8	011-G6000100	CD FRONT BKT R	
2 – 9	022-43010033	SCREW Ø3x10MM PWM BLK HD	
2 – 10	039-29303330	CD DECK ASS'Y	
2 – 11	011-G6000200	CD FRONT BKT L	
2 – 12	018-OLT98000	HEAT SINK (FOR CD PCB)	
2 – 13	100-29302060	CD PCB ASS'Y	
2 – 14	021-13008032	SCREW Ø3x8MM PT ZMC HD	
2 – 15	011-G6000300	CD BACK BKT	
2 – 16	021-13010032	SCREW Ø3x10MM PT ZMC HD	
2 – 17	011-28000200	HOLDER LEG A	
2 – 18	016-G6000100	INNER BOTTOM BOARD	
2 – 19	011-28000300	HOLDER LEG B	
2 – 20	011-28000401	HOLDER BAR	
2 – 21	022-23006032	SCREW Ø3x6MM BM ZMC HD	
2 – 22	100-G6002010	10W MAIN PCB ASS'Y	
2 – 23	011-28000500	PCB HOLDER BKT	
2 – 24	018-G6000000	POWER IC HEAT SINK	
2 – 25	011-28001100	STRONG BKT	

EXPLODED VIEW-3

GF-600

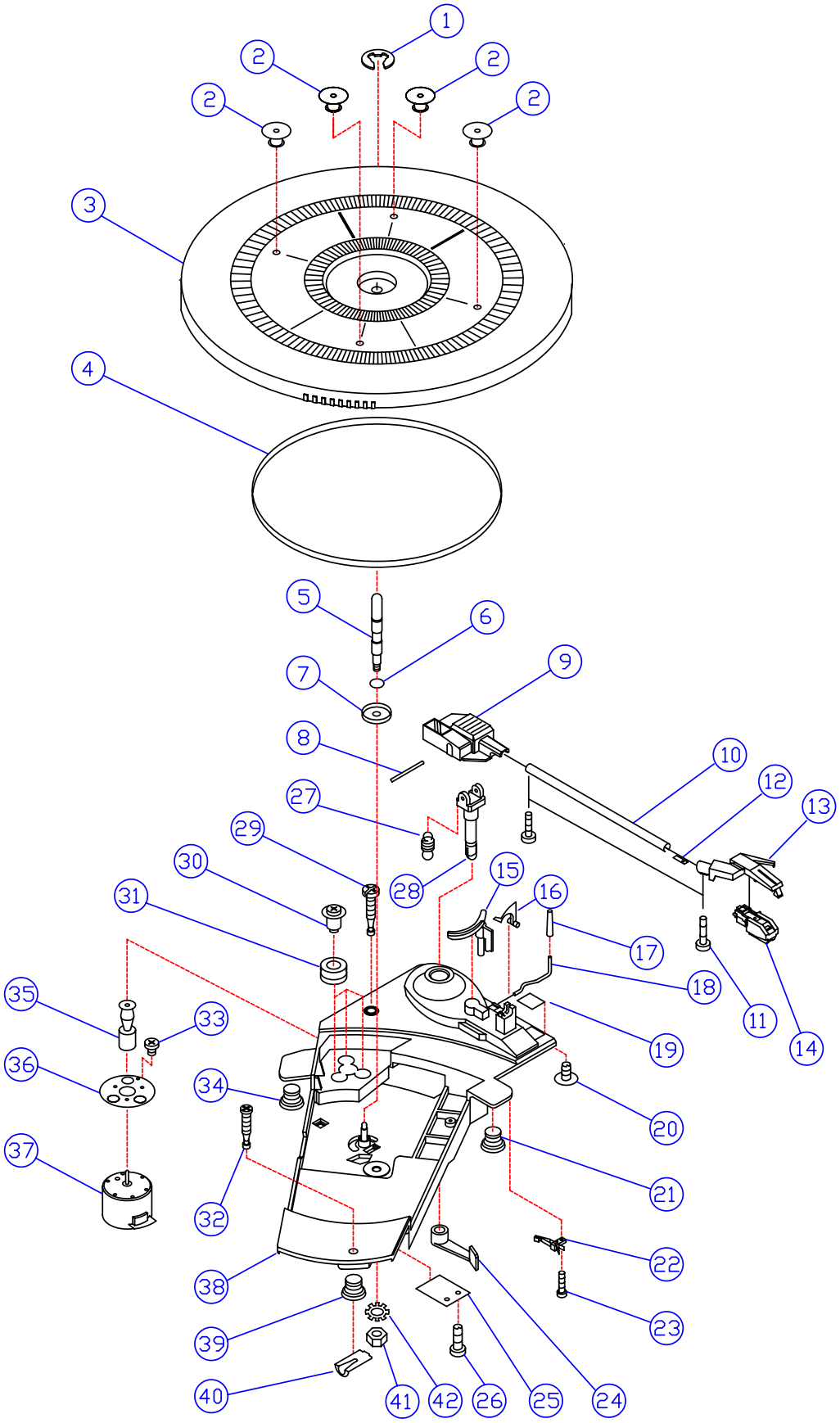


EXPLODED VIEW-3

REF. NO		PARTS NO.	DESCRIPTION	REMARKS
3 – 1			FRONT PANEL ASS'Y	
3 – 2		016-G6000000	WOODEN CABINET ASS'Y	
3 – 3		004-M9700000	SPEED SW. KNOB	
3– 4		010-M9700000	SPEED SW. COVER	
3 – 5		100-F1802030	PHONO SPEED SW. PCB ASS'Y	
3 – 6		022-12604032	SCREW Ø2.6x4MM PM ZMC	
3 – 7		010-G6000300	PLAYER COVER	
3 – 8		024-33012033	SCREW Ø3x12MM KA BLK HD	
3 – 9		021-24014033	SCREW Ø4x14MM BT BLK HD	
3 – 10		011-F1800500	SIDE STAY ASS'Y	
3 – 11		024-33012033	SCREW Ø3x10MM KA NI HD	
3 – 12		024-23008031	SCREW Ø3x8MM BA NI HD	
3 – 13	⚠	084-G6000200	POWER TRANSFORMER 10W 120V/60Hz	
	⚠	084-G6000700	POWER TRANSFORMER 10W 120V/230V 50 Hz	
3 – 14		011-02000800	POWER TRANS PLATE	
3 – 15		011-02001500	AC CORD HOLDER	
		011-G6000400	AC CORD HOLDER (NEW)	
3 – 16		022-44022033	SCREW Ø4x22MM PWM BLK HD	
3 – 17		037-KRA20100	RUBBER FOOT	
3 – 18		024-24010033	SCREW Ø4x10MM BA BLACK HD	
3 – 19	⚠	087-00000007	AC CORD "UL",L=2000MM.	
3 – 20		016-G6000200	BACK BOARD	
3 – 21		021-43012033	SCREW Ø3x12MM PWT BLK HD	
3 – 22		011-28000000	WOODEN BKT	
3 – 23		048-0G600010	SPEAKER BOX ASS'Y	
3 – 24		037-F3000100	TOP COVER CUSHION	
3 – 25		010-G6000500	SPEAKER NAME PLATE	
3 – 26		022-44014033	SCREW Ø4x14MM PWM BLK HD	
3 – 27		022-44010033	SCREW Ø4x10MM PWM BLK HD	
3 – 28		022-44018033	SCREW Ø4x18MM PWM BLK HD	
3 – 29		040-01000311	PLAYER ASS'Y(3 SPEED DC=9V)	
3 – 30		024-43112033	SCREW Ø3.1x12MM PWA BLK HD	
3 – 31		011-F1001040	SPEED SW. BKT	
3 – 32		021-13010032	SCREW Ø3x10MM PT ZMC HD	

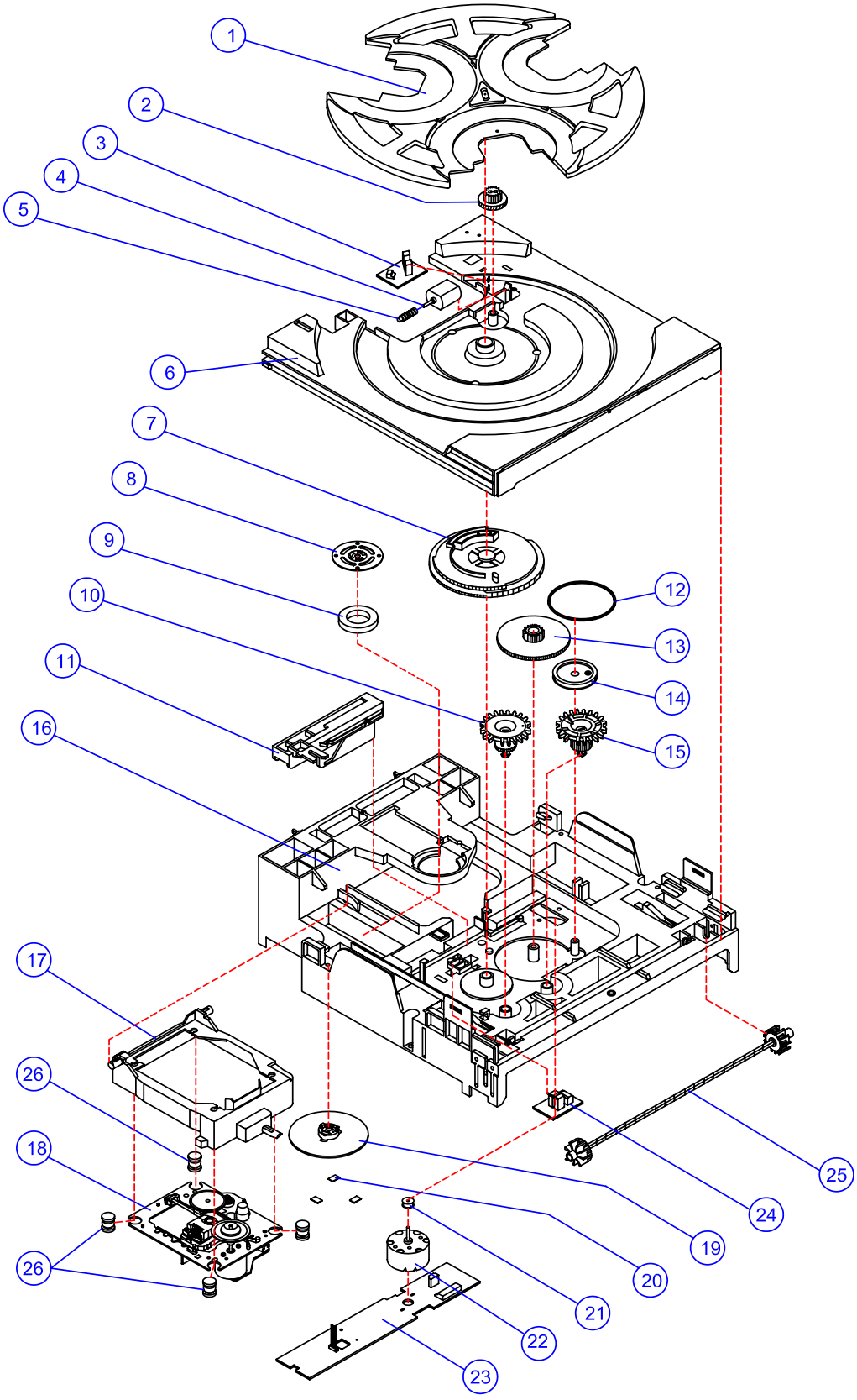
EXPLODED VIEW—4

GF—600



EXPLODED VIEW-4

REF. NO	PARTS NO.	DESCRIPTION	REMARKS
4 – 1	020-10000200	E-RING (5.0M/M)	
4 – 2	037-10000000	RUBBER A	
4 – 3	010-10000300	PLATTER	
4 – 4	033-17001006	BELT Ø170 x 0.6 x 5MM	
4 – 5	014-01000000	PLATTER SHAFT	
4 – 6	012-02116782	PVC WASHER Ø7.8 x Ø11.6 x T0.2	
4 – 7	020-10000000	SHAFT SET	
4 – 8	014-01000001	SHAFT A	
4 – 9	010-10000400	TONE ARM SET	
4 – 10	011-10000200	TONE ARM	
4 – 11	021-22005031	SCREW Ø2 x 5 BT ZMC HD	
4 – 12	011-10000100	GROUND SHEET	
4 – 13	010-10000500	HEAD SHELL	
4 – 14	055-01000000	STYLUS ASS'Y	
4 – 15	010-10000100	LIFTER	
4 – 16	010-10000200	PICK-UP CRAMPER	
4 – 17	004-10000000	AXLE KNOB	
4 – 18	014-01000002	CUTTING LEVER	
4 – 19	015-10000000	COVER (BLACK)	
4 – 20	021-43005012	SCREW Ø3x5MM PWT (W=8) ZMC	
4 – 21	031-10000320	SPRING C ZMC	
4 – 22	063-01000400	LEAF SWITCH	
4 – 23	021-12008012	SCREW Ø2x8 PT ZMC	
4 – 24	010-10000600	CAPSTAN	
4 – 25	100-F1802020	PHONO SPEED PCB ASS'Y	
4 – 26	021-13008012	SCREW Ø3x8 PT ZMC	
4 – 27	031-10000010	SPRING (Ni)	
4 – 28	010-10000000	ROTARY SHAFT	
4 – 29	019-01000021	BOLT A NI L=39MM	
4 – 30	025-01000002	FIX SCREW ZMC	
4 – 31	037-10000100	RUBBER B	
4 – 32	019-01000011	BOLT B BLACK L=39MM	
4 – 33	026-12504022	SCREW Ø2.5x4MM PTT ZMC+SW	
4 – 34	031-10000110	SPRING A NI	
4 – 35	017-10000300	PULLEY	
4 – 36	011-10000300	MOTOR BKT	
4 – 37	085-01000121	MOTOR DC:12V (3 SPEED)	
4 – 38	002-10000000	PANEL	
4 – 39	031-10000230	SPRING B BLK	
4 – 40	011-10000000	TRANS SPRING BKT	
4 – 41	013-40000001	NUT M4	
4 – 42	020-10000100	STOP WASHER	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EXPLODED VIEW-5

REF. NO	PARTS NO.	DESCRIPTION	REMARKS
5 – 1		TRAY ROULETTE	
5 – 2		GEAR ROULETTE	
5 – 3		SENSOR PCB ASS'Y	
5 – 4		SHEET MOTOR	
5 – 5		GEAR WORM	
5 – 6		TRAY DISC	
5 – 7		GEAR CAM	
5 – 8		BRKT CHUCK	
5 – 9		MAGNET	
5 – 10		GEAR CONVERT	
5 – 11		SLIDER CAM	
5 – 12		BELT LOAD	
5 – 13		GEAR LOAD	
5 – 14		GEAR PULLEY	
5 – 15		GEAR TRAY	
5 – 16		BASE MAIN	
5 – 17		LEVER LIFTER	
5 – 18		CMS-A30NG6	
5 – 19		TABLE CHUCK	
5 – 20		SHEET CHUCK	
5 – 21		PULLEY MOTOR	
5 – 22		MOTOR DC	
5 – 23		MECHA PCB ASS'Y	
5 – 24		SW PCB ASS'Y	
5 – 25		GEAR SYNCRO	
5 – 26		RUBBER CD	

7 PC BOARD AND PARTS LIST

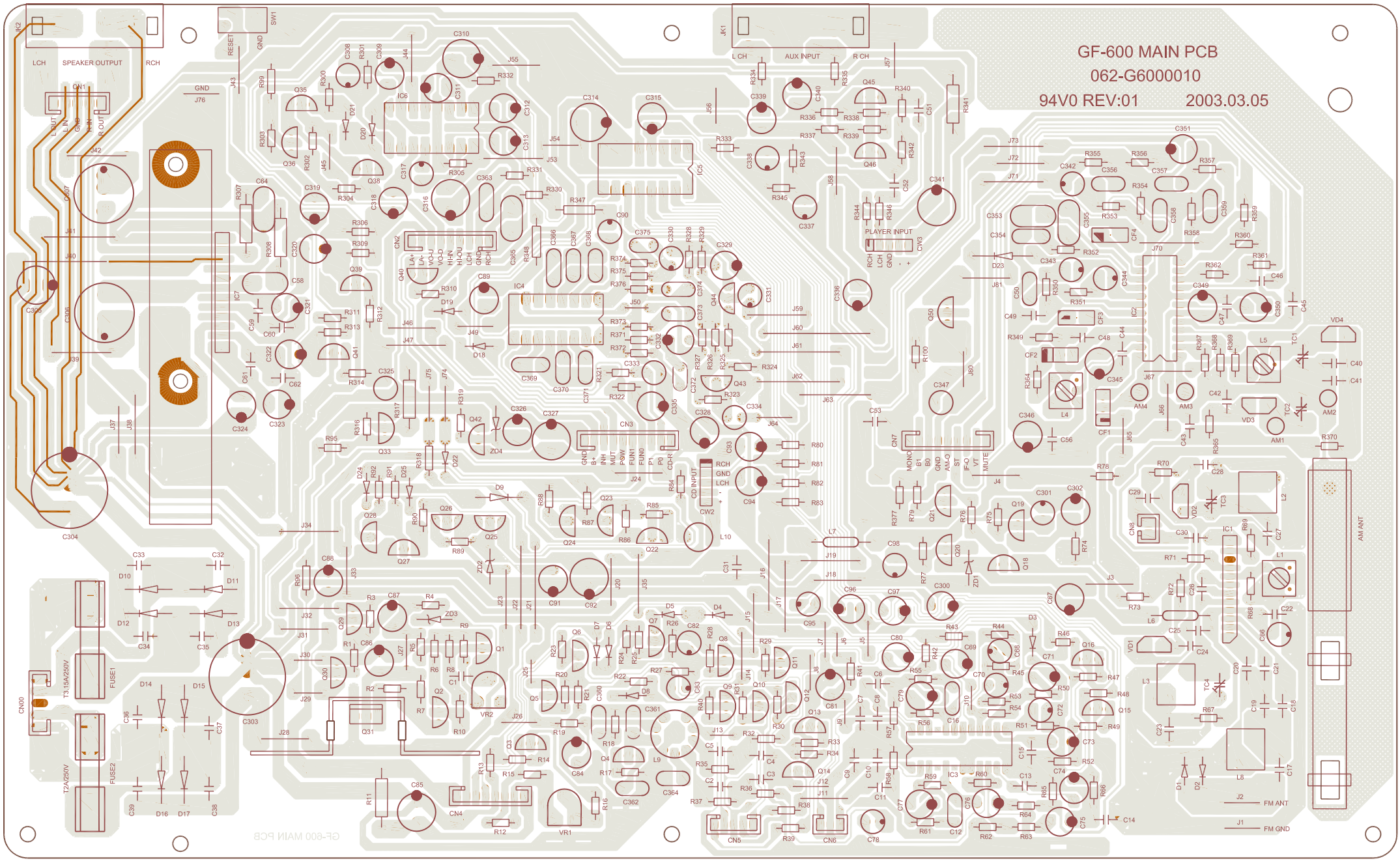
MAIN PCB ASSY

REF. NO		PARTS NO.	DESCRIPTION
		100-G6002010	10W MAIN PCB ASSY
		062-G6000010	MAIN PCB
		018-D2800000	HEAT SINK
		056-10100000	FERRITE BAR Ø10x100MM
		096-D2930010	AM BAR ANT COIL 68:20T
C303	⚠	072-30220251	E/C CAP 2200UF/25V M
C304	⚠	072-30330501	E/C CAP 3300UF/50V M
C32,33,34,35		070-32200507	CERAMIC CAP 0.022UF 50V Y5U M
C36,37,38		070-50100507	CERAMIC CAP 0.1UF50V Y5U M
C7,8,9,10		070-30100505	CERAMIC CAP 0.001UF 50V Y5P K
C312,313		072-01000251	E/C CAP 10UF/25V M
C358,359,50		071-31501001	MYLAR CAP 0.015UF 100V J
C21,22,42,56		070-50100507	CERAMIC CAP 0.1UF 50V Y5U M
C301,343,344,346		072-01000251	E/C CAP 10UF/25V M
349,350			
CN6,8		082-10300100	CONNECTOR 3PIN P=2.0MM
CN5		082-10500100	CONNECTOR 5PIN P=2.0MM
CN4		082-10800100	CONNECTOR 8PIN P=2.0MM
CN2,7		082-10900100	CONNECTOR 9PIN P=2.0MM
CN3		082-11000100	CONNECTOR 10PIN P=2.0MM
CN8		082-10240100	CONNECTOR 2PIN P=2.5MM
CN1		082-10540100	CONNECTOR 5PIN P=2.5MM
D3,4,5,6,7,8,18,19		077-00414801	DIODE, 1N4148
20,21,24,25			
D14,15,16,17	⚠	077-10400201	DIODE, 1N4002
D10,11,12,13	⚠	077-10539201	DIODE, 1N5392
FUSE1	⚠	090-12531522	FUSE, 15A 250V “UL” MARK
FUSE2	⚠	090-12520022	FUSE, 2A 150V “UL” MARK
IC1		075-00817601	IC:TA8176SN
IC2		075-00205701	IC:TA2057N
IC3		075-00818901	IC:TA8189N
IC4		075-00207801	IC:TA2078P
IC5		075-00405201	IC:TC4052BP
IC6		075-00225309	IC:PT2253A
IC7		075-00428212	IC:LA4282
JK1,2		086-GF600021	RCA PHONE JACK

MAIN PCB ASSY

REF.NO	PARTS NO.	DESCRIPTION
L6,7	095-00100001	INDUCTOR 10UH 0.5W (AL0305-1OOK)
L8	078-08450351	FM BPF COIL Ø4.5MMx3.5TxØ0.8MM
L3	078-08500351	FM RF COIL Ø5.0MMx3.5TxØ0.8MM
L2	078-08500251	FM OSC COIL Ø5.0MMx2.5TxØ0.8MM
L1	079-D2930320	FM IFT COIL 3F021C ORANGE
L4	079-D2800011	AM IFT COIL 3A007C YELLOW
L5	079-D2930210	AM OSC COIL 3M005 RED
Q2,19,20,21,23	076-09014C00	TRANSISTOR:9014C
24,25,26,27,28		
35,36		
Q18,26	076-09015C00	TRANSISTOR:9015C
Q1,8,9,10,11,12	076-00C94500	TRANSISTOR:2SC945
13,14,15,16,30		
Q3,5,7	076-00A73300	TRANSISTOR:2SA733
Q4	076-C2001L00	TRANSISTOR:2SC2001L
Q6	076-DTC11400	TRANSISTOR:DTC114ES
Q22,29,33	076-00B54400	TRANSISTOR:2SB544F
Q31	076-00B98600	TRANSISTOR:2SB986
TC2,4	073-00020022	TC 20PF
VD1,2	077-50010101	ISV101 (TOSHIBA)
VD3,4	077-50014901	ISV149 (TOSHIBA)
XT01	093-A0750002	XTAL 75KHz
X101	093-11693002	XTAL 16.93MHz
ZD1	077-3006B10H	ZENER DIODE 5.6V 0.5W
ZD4	077-3006C20H	ZENER DIODE 6.2V 0.5W
ZD3	077-3009A20H	ZENER DIODE 8.2V 0.5W
ZD2	077-3011C10H	ZENER DIODE 11V 0.5W

GF-600 MAIN PCB



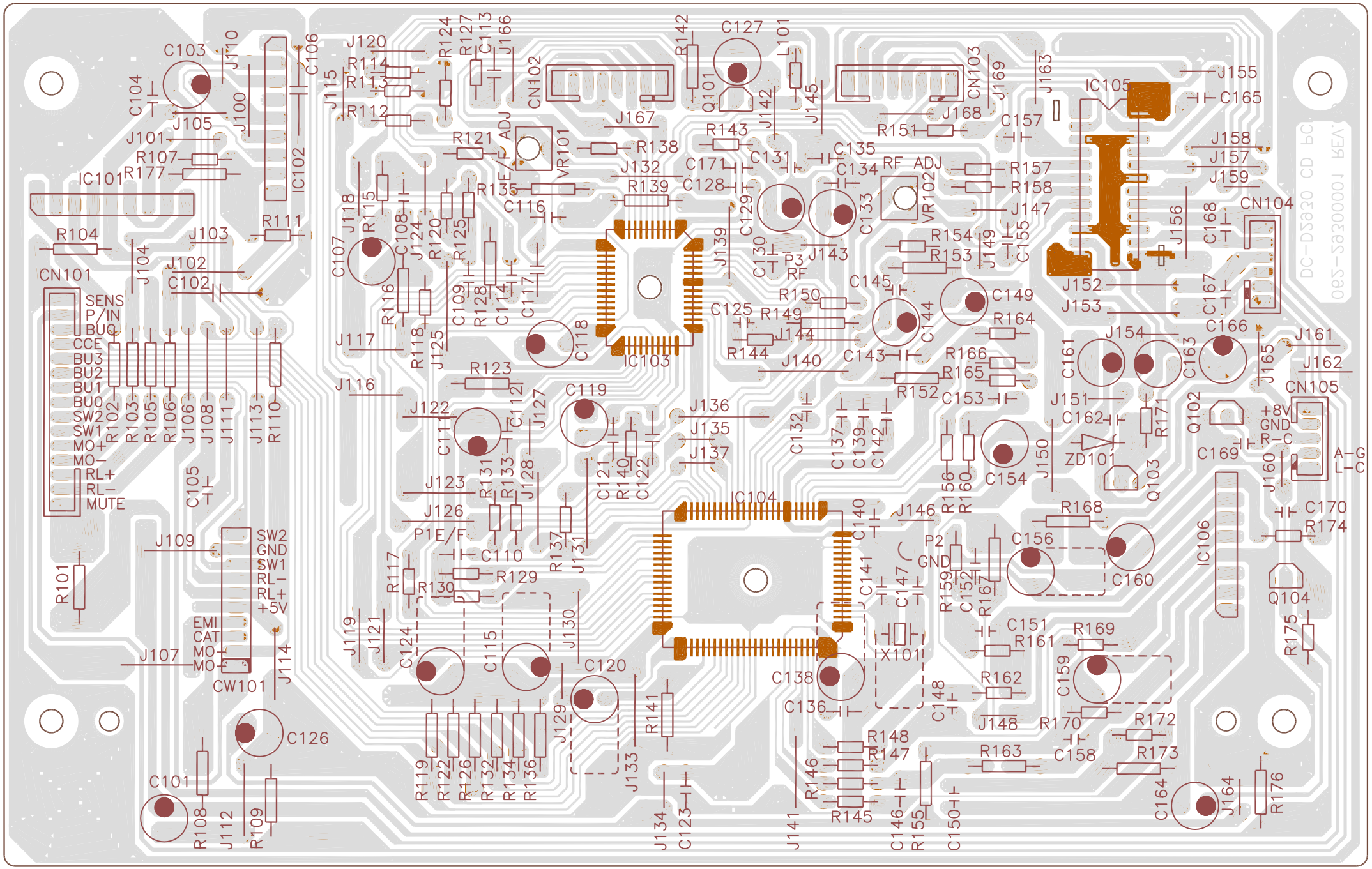
CD PCB ASSY

REF. NO	PARTS NO.	DESCRIPTION
	100-29302060	CD PCB ASSY
	062-29300001	CD PCB
	018-0LT98000	HEAT SINK
C103,124,126,138	072-11000162	E/C CAP 100UF/16V M
C104,112,130,134	070-34000507	CERAMIC CAP 0.04UF 50V Y5U M
135		
C106	072-00470503	E/C CAP 0.47UF±10%/50V
C113,132,162	070-31000506	CERAMIC CAP 0.01UF 50V Y5U M
C105,108,123,136	070-50100507	CERAMIC CAP 0.1UF 50V Y5U M
155,157,167,168		
C109,153	071-31001001	MYLAR CAP 0.01UF 100V J
C114	070-32200507	CERAMIC CAP 0.22UF 50V M
C117	072-A3300503	E/C CAP 3.3UF/50V M
C107	072-02200251	E/C CAP 22UF/25V M
C118	072-01000251	E/C CAP 10UF/25V M
C111	072-04700161	E/C CAP 47UF/16V M
C119,120	072-01000252	E/C CAP 10UF/25V M
C121	071-35601001	MYLAR CAP 0.056UF 100V J
C122	071-33301001	MYLAR CAP 0.033UF 100V J
C110,116	071-30151001	MYLAR CAP 0.0015UF 100V J
C150,151,152,158	070-11000502	CERAMIC CAP 100PF 50V NPO J
C145,170	070-14700504	CERAMIC CAP 470PF 50V Y5E K
C101,127,149,159	072-11000161	E/C CAP 100UF/16V M
160,161		
C166	072-14700161	E/C CAP 470UF/16V M
C163	072-12200161	E/C CAP 220UF/16V M
C141,147	070-02500502	CERAMIC CAP 25PF NPO J
C146	070-02700502	CERAMIC CAP 27PF NPO J
C143	070-11200502	CERAMIC CAP 120PF 50V NPO J
C102	072-00680503	E/C CAP 0.68UF±105/50V
C144	072-A1000501	E/C CAP 1UF/50V M
C156	072-A4700502	E/C CAP 4.7UF/50V M
C154	072-01000251	E/C CAP 10UF/25V M
C129,133	072-04700161	E/C CAP 47UF/16V M
C115	072-12200162	E/C CAP 220UF/16V M
CN105	082-20500100	CONNECTOR 5PIN P=2.0MM 90°C WHITE
CN104	082-20600100	CONNECTOR 6PIN P=2.0MM 90°C WHITE
CN103	082-20800200	CONNECTOR 8PIN P=2.0MM 90°C BROWN
CN102	082-20800100	CONNECTOR 8PIN P=2.0MM 90°C WHITE
CN101	082-21500100	CONNECTOR 15PIN P=2.0MM 90°C WHITE

CD PCB ASSY

REF.NO	PARTS NO.	DESCRIPTION
IC101,102	075-07291S11	IC:TA7291S
IC103	075-02065F31	IC:TA2065F
IC104	075-9284BF31	IC:TC9284BF
IC105	075-02092N01	IC:TA2092N
IC106	075-04558N18	IC:BA4558N
Q101	076-09015C00	TRANSISTOR:9015C
Q102,103,104	076-09014C00	TRANSISTOR:9014C
VR101	092-50100300	VR 100K OHM
VR102	092-30300300	VR 3K OHM
X101	093-11693002	XTAL 16.93MHz
ZD101	077-3006B10H	ZENER DIODE 5.6V 0.5W

GF-600 CD PCB


SENS
P/IN
BUC
CCE
BU3
BU2
BU1
BU0
SW2
SW1
MO+
MO-
RL+
RL-
MUTE
SW2
GND
SW1
RL-
RL+
+5V
EMI
CAT
MO+
MO-
P1E/F
P2
GND
P3
RF
RF ADJ
F ADJ
+8V
GND
R-C
A-G
L-C
IC101
IC102
IC103
IC104
IC105
IC106
CW101
ZD101
X101
Q101
Q102
Q103
Q104
VR101
VR102
CN101
CN102
CN103
CN104
CN105

FRONT PCB ASSY

REF. NO	PART NO.	DESCRIPTION
	100-G6002020	FRONT CONTROL PCB ASS'Y
	062-G6000020	FRONT CONTROL PCB
C2,4,5	070-30220505	CERAMIC CAP 0.002UF 50V Y5P K
C7,8,9,13	070-30100505	CERAMIC CAP 0.001UF 50V Y5P K
C011,014,016	070-50100507	CERAMIC CAP 0.1UF 50V Y5U M
C12	071-31801001	MYLAR CAP 0.018UF 100V J
C17	070-03000502	CERAMIC CAP 30PF 50V NPO J
C6	070-13300504	CERAMIC CAP 330PF 50V Y5E K
C010	072-14700101	E/C CAP 470UF/10V M
D01,02,03,04,05,06 07,08,010,011,012,013 16,019,020,021,022 23,024	077-00414801	DIODE 1N4148
D9,15,17	077-10400201	DIODE 1N4002
LED01,02	094-03020301	LED: ∅3MM ORANGE
IC01	075-09314F31	IC:MICON TC9314F-034
Q01,02,03,04,05	076-09014C00	TRANSISTOR:9014C
SW023,024,011,013	063-D2800020	TACT SWITCH SKHHALM
SW01~010,012,014~020	063-0GP28020	TACT SWITCH H=5.0MM
SW025,026	063-8699T211	PUSH SWITCH PSP10055AB901
XTO1	093-A0750002	XTAL 75KHz

HEADPHONE/SENSOR PCB ASSY

REF. NO	PART NO.	DESCRIPTION
	062-G6000030	HEADPHONE/SENSOR PCB
C03	070-30220505	CERAMIC CAP 0.0022UF 50V Y5P K
CN08	082-10300100	CONNECTOR 3PIN P=2.0MM
JK5	064-64020101	HEAD PHONE JACK ∅6.4MM
U01	083-GF600000	REMOCON SENSOR PIC2031SMB

CD OPEN/CLOSE PCB ASSY

REF. NO	PART NO.	DESCRIPTION
	062-G6000030	CO OPEN/CLOSE PCB
SW021,022	063-0GP28020	TACT SWITCH H=5.0MM

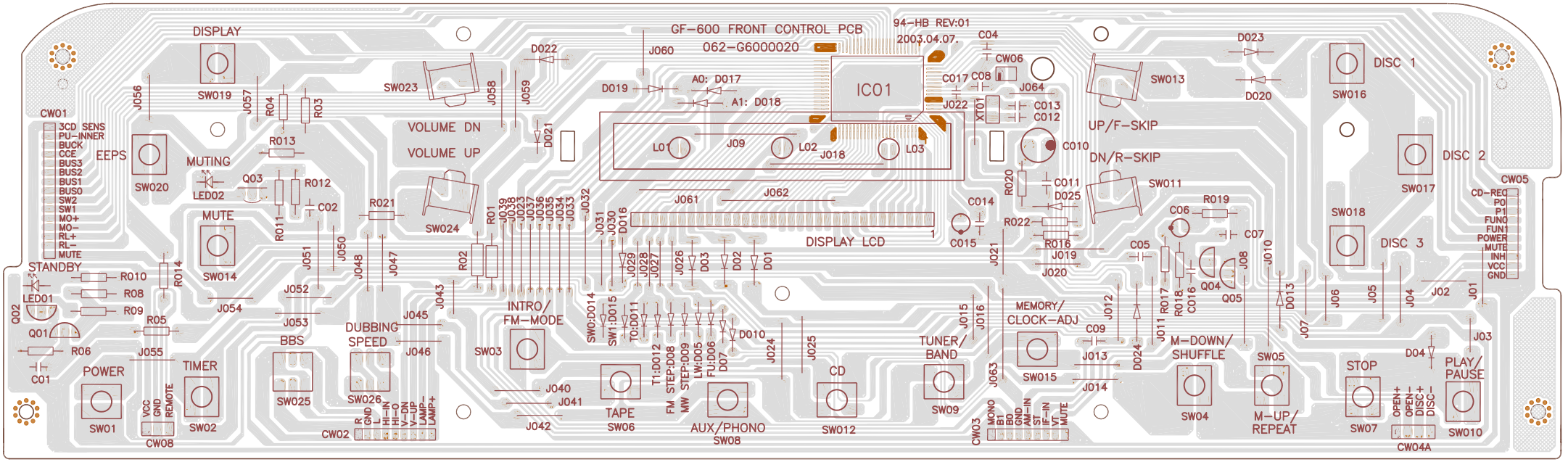
PHONO SPEED SWITCH PCB ASSY

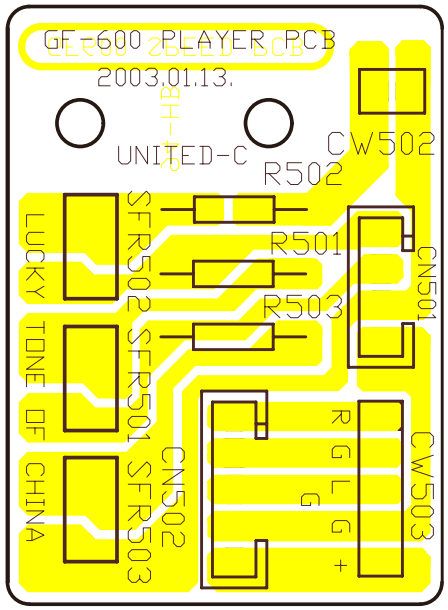
REF. NO	PART NO.	DESCRIPTION
	062-G6000030	PHONO SPEED SWITCH PCB
SW501	063-GF100110	PHONO SPEED SWITCH 2P3T

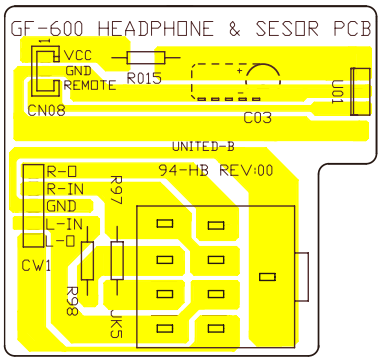
PHONO SPEED PCB ASSY

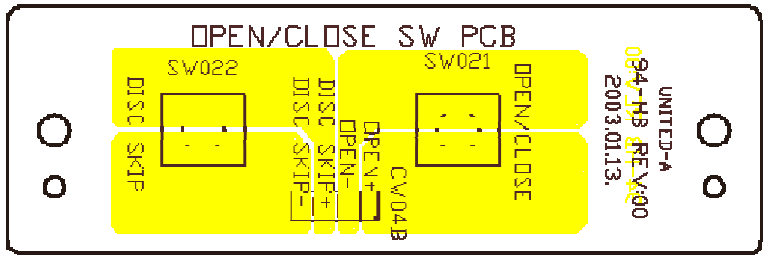
REF. NO	PART NO.	DESCRIPTION
	062-G6000030	PHONO SPEED PCB
CN501	082-10440100	CONNECTOR 4PIN P=2.5MM
CN502	082-10540100	CONNECTOR 5PIN P=2.5MM
SFR501,503	092-30470000	S.F.R. 4.7K PA0630-VA1-B472HR
SFR502	092-30300000	S.F.R. 3K PA0630-VA1-B302HR

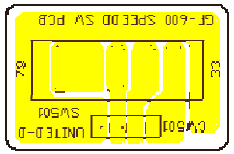
GF-600 FRONT CONTROL PCB

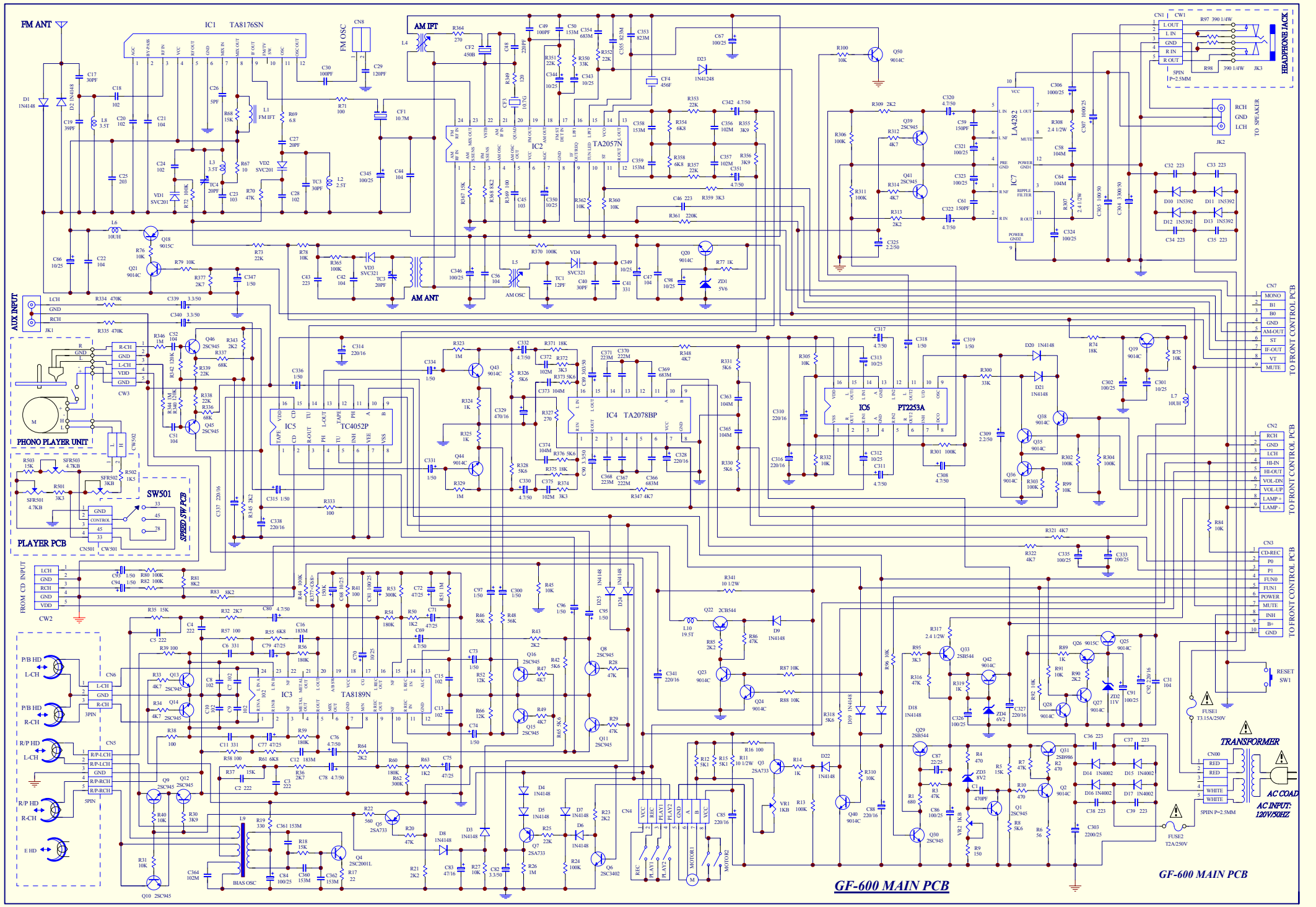


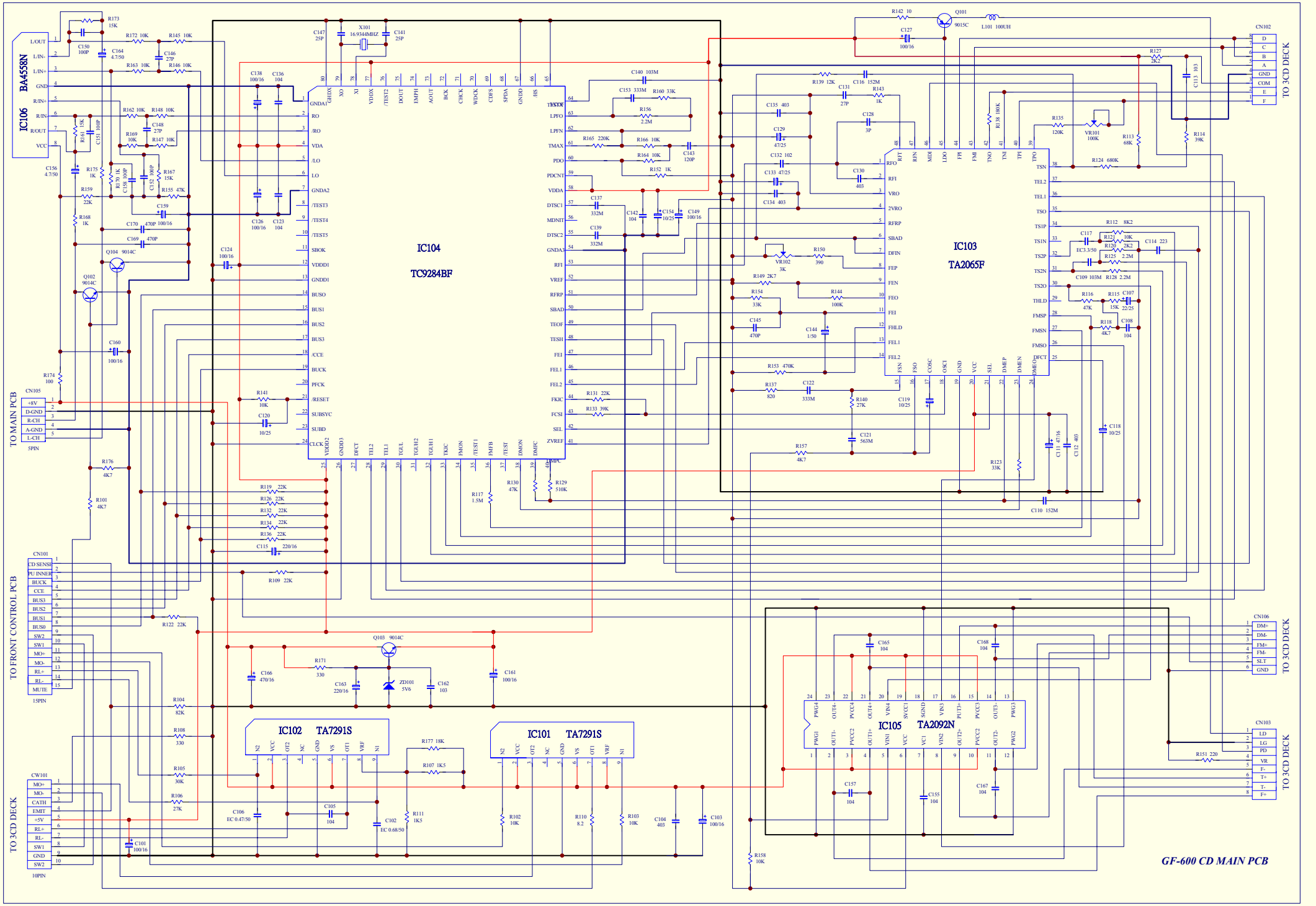

GF-600 PLAYER PCB
2003.01.13.
UNITED-C
CW502
R502
R501
R503
CN501
SFR502
SFR501
SFR503
CN502
CW503
LUCKY
TONE OF
CHINA

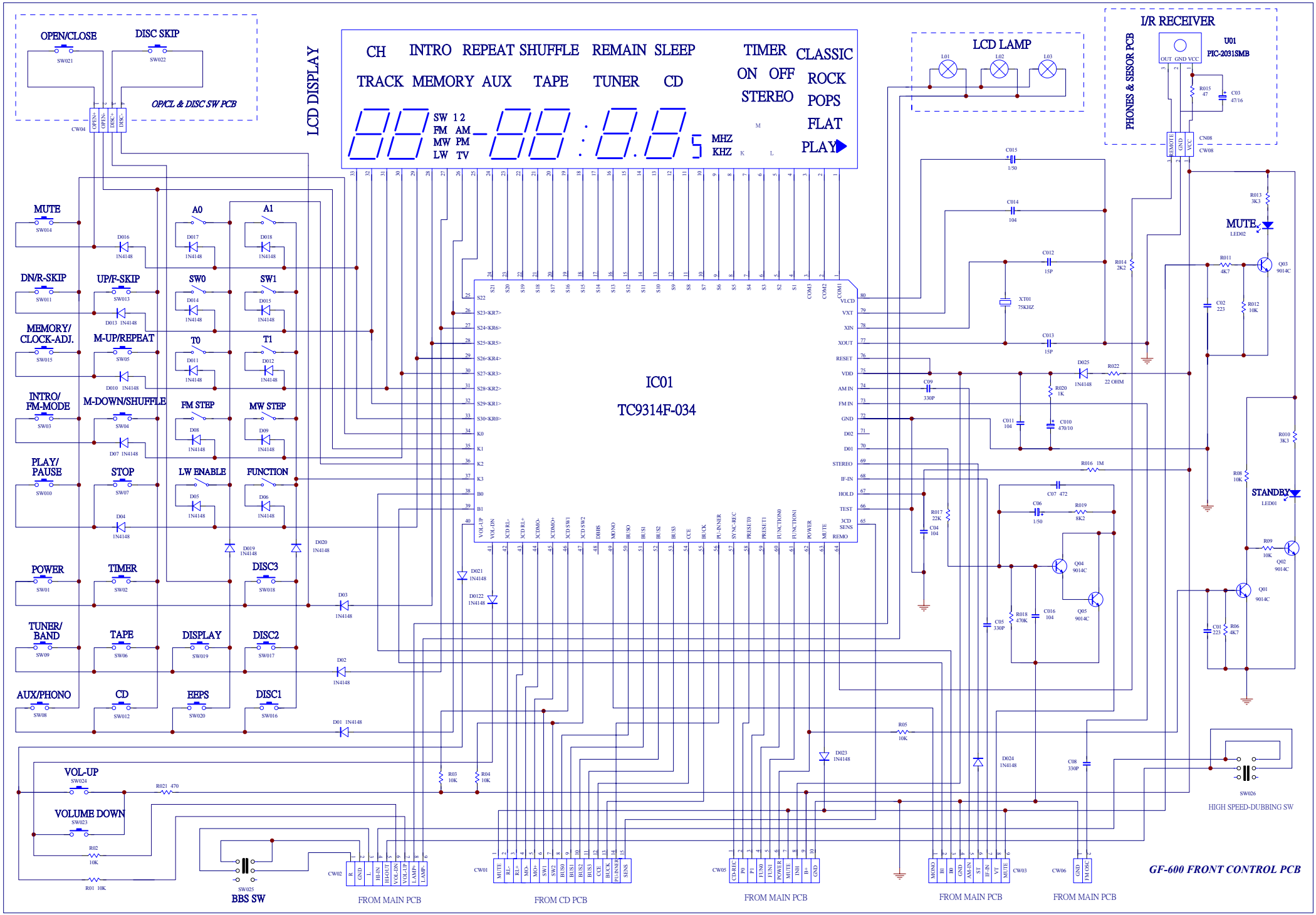

GF-600 HEADPHONE & SESOR PCB
VCC
GND
REMOTE
R015
CN08
C03
U01
UNITED-B
94-HB REV:00
R-O
R-IN
GND
L-IN
L-O
R97
R98
CW1
JK5


OPEN/CLOSE SW PCB
SW022
SW021
DISC SKIP
DISC SKIP+
DISC SKIP-
OPEN+
OPEN-
OPEN/CLOSE
CW04B
UNITED-A
94-HB REV:00
2003.01.13.




FM ANT
IC1 TA8176SN
FM OSC
AM IFT
IC2 TA2057N
IC7 LA4282
HEADPHONE JACK
TO SPEAKER
AUX INPUT
PHONO PLAYER UNIT
PLAYER PCB
SW501
SPEED SW PCB
IC5 TC4052P
IC4 TA2078BP
IC6 PT2253A
TO FRONT CONTROL PCB
FROM CD INPUT
IC3 TA8189N
P/B HD L-CH
P/B HD R-CH
R/P HD L-CH
R/P HD R-CH
E HD
BIAS OSC
TRANSFORMER
AC COAD
AC INPUT: 120V/50HZ
FUSE1 T3.15A/250V
FUSE2 T2A/250V
RESET SW1
GF-600 MAIN PCB


IC104
TC9284BF
IC103
TA2065F
IC102 TA7291S
IC101 TA7291S
IC105 TA2092N
IC106 BA4558N
Q101 9015C
Q102 9014C
Q103 9014C
Q104 9014C
X101 16.9344MHZ
L101 100UH
ZD101 5V6
VR101 100K
VR102 3K
CN101
CN102
CN103
CN104
CN105
CN106
CW101
TO MAIN PCB
TO FRONT CONTROL PCB
TO 3CD DECK
TO 3CD DECK
TO 3CD DECK
GF-600 CD MAIN PCB


OPEN/CLOSE
SW021
DISC SKIP
SW022
OP/CL & DISC SW PCB
CW04
LCD DISPLAY
CH
INTRO
REPEAT
SHUFFLE
REMAIN
SLEEP
TIMER
CLASSIC
TRACK
MEMORY
AUX
TAPE
TUNER
CD
ON
OFF
ROCK
STEREO
POPS
FLAT
PLAY
SW 1 2
FM AM
MW PM
LW TV
MHZ
KHZ
LCD LAMP
L01
L02
L03
I/R RECEIVER
U01
PIC-2031SMB
PHONES & SESOR PCB
CN08
CW08
MUTE
SW014
DN/R-SKIP
SW011
UP/F-SKIP
SW013
MEMORY/
CLOCK-ADJ.
SW015
M-UP/REPEAT
SW05
INTRO/
FM-MODE
SW03
M-DOWN/SHUFFLE
SW04
PLAY/
PAUSE
SW010
STOP
SW07
POWER
SW01
TIMER
SW02
TUNER/
BAND
SW09
TAPE
SW06
AUX/PHONO
SW08
CD
SW012
A0
A1
SW0
SW1
T0
T1
FM STEP
MW STEP
LW ENABLE
FUNCTION
DISC3
SW018
DISPLAY
SW019
DISC2
SW017
EEPS
SW020
DISC1
SW016
D016 1N4148
D017 1N4148
D018 1N4148
D013 1N4148
D014 1N4148
D015 1N4148
D010 1N4148
D011 1N4148
D012 1N4148
D07 1N4148
D08 1N4148
D09 1N4148
D04 1N4148
D05 1N4148
D06 1N4148
D019 1N4148
D020 1N4148
D021 1N4148
D0122 1N4148
D03 1N4148
D02 1N4148
D01 1N4148
IC01
TC9314F-034
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S24<KR6>
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K0
K1
K2
K3
B0
B1
COM3
COM2
COM1
VLCD
VXT
XIN
XOUT
RESET
VDD
AM IN
FM IN
GND
D02
D01
STEREO
IF-IN
HOLD
TEST
3CD SENS
REMO
VOL-UP
VOL-DN
3CD RL-
3CD RL+
3CDMO-
3CDMO+
3CD SW1
3CD SW2
DBBS
MONO
BUS0
BUS1
BUS2
BUS3
CCE
BUCK
PU-INNER
SYNC-REC
PRESET0
PRESET1
FUNCTION0
FUNCTION1
POWER
MUTE
C015 1/50
C014 104
C012 15P
C013 15P
XT01 75KHZ
C99 330P
C011 104
C010 470/10
D025 1N4148
R022 22 OHM
R020 1K
R016 1M
C07 472
C06 1/50
R019 8K2
R017 22K
C04 104
Q04 9014C
Q05 9014C
R018 470K
C016 104
C05 330P
R05 10K
D023 1N4148
D024 1N4148
C08 330P
R03 10K
R04 10K
R021 470
VOL-UP
SW024
VOLUME DOWN
SW023
R02 10K
R01 10K
SW025
BBS SW
SW026
HIGH SPEED-DUBBING SW
R013 3K3
MUTE
LED02
R014 2K2
R011 4K7
Q03 9014C
C02 223
R012 10K
R010 3K3
R08 10K
STANDBY
LED01
R09 10K
Q02 9014C
Q01 9014C
C01 223
R06 4K7
CW02
R
GND
L
HI-IN
HI-OUT
VOL-DN
VOL-UP
LAMP-
LAMP-
FROM MAIN PCB
CW01
MUTE
RL-
RL+
MO-
MO+
SW1
SW2
BUS0
BUS1
BUS2
BUS3
CCE
BUCK
PU-INNER
SENS
FROM CD PCB
CW05
CD-REC
PO
PI
FUN0
FUN1
POWER
MUTE
INH
B+
GND
FROM MAIN PCB
MONO
BI
BO
GND
AM-IN
ST
IF-IN
VT
MUTE
CW03
FROM MAIN PCB
CW06
GND
FM OSC
FROM MAIN PCB
GF-600 FRONT CONTROL PCB